applications include radiopharmaceuticals, brahchytherapy wires, radioimmunoassay kits and various other products and services. The Board of Radiation and Isotope Technology (BRIT) is responsible for the processing of radioisotopes for supply to medical and industrial users across the country. All the nuclear medicine centres and cancer hospitals in the country are using the radioisotope products supplied by BRIT. In addition, medical disposables and other surgical items used in hospitals are sterilized by using gamma radiation. The ISOMED unit of BRIT is providing such gamma sterilization services for the medical products. The Blood Irradiator units produced by BRIT are used in many hospitals for the irradiation of blood prior to transfusion.

As regards production of power, there are fourteen (14) nuclear power reactors with a total nuclear power capacity of 2770 MWe in operation in the country.

(c) There are nine nuclear power reactor units with a total capacity of 4460 MWe under construction. The details of the location, capacity and scheduled date of commercial operation of each of the project is given below:

| Project | Capacity MWe | Scheduled date of Commercial Operation |
|---|---|---|
| Tarapur Atomic Power Project Units—3 & 4, Tarapur, Maharashtra | 2x540 | Unit-4 — Mar 2006<br>Unit-3 — Jan 2007 |
| Kaiga Atomic Power Project Units—3 & 4, Kaiga, Karnataka | 2 x 2 2 0 | Unit-3 — Mar 2007<br>UniM — Sep 2007 |
| Kudankulam Nuclear Power Project Units—1 & 2, Kudankulam, Tamil Nadu | 2 x 1000 | Unit-1— Dec. 2007<br>Unit-2 — Dec. 2008 |
| Rajasthan Atomic Power Project Units—5 & 6, Rawatbhata, Rajasthan | 2 x 2 2 0 | Unit-5—Aug 2007<br>Unit-6 — Feb 2008 |
| Prototype Fast Breeder Reactor, Kalpakkam | 1 x500 | Mar 2011 |

**Completion of Kaiga Atomic Power Project**

2221. SHRI B.K. HARIPRASAD: Will the PRIME MINISTER be pleased to state:

(a) whether technical snags are delaying the completion of Kaiga Atomic Power Project in Karnataka;

(b) the extent of overall cumulative physical progress on Kaiga project achieved by the end of 2003; and

(c) the target dates for the plant to go critical?

THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE (SHRI PRITHVIRAJ CHAVAN): (a) No, Sir. Unit 1 and 2 of Kaiga Atomic Power Project are in operation since the year 2000. The work on units 3 and 4 is progressing as per schedule.

(b) The overall cumulative physical progress of 36.9% of Kaiga 3 and 4 by the end of December 2003 has gone up to 55.7% by November 2004.

(c) Kaiga Units 3 and 4 are scheduled to commence commercial operations by March 2007 (Unit-3) and September 2007 (Unit-4).

**Efficiency of Atomic Power Plants**

†2222. SHRI KRIPAL PARMAR: Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that a very small part of total power generation of country is being produced from atomic energy;

(b) if so, the main reasons thereof and status of India as compared to other countries in power generation from atomic energy;

(c) whether efficiency of atomic power plants in country is low; and

(d) if so, the reasons therefor and steps taken by Government to increase atomic power generation in the country?

THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE (SHRI PRITHVIRAJ CHAVAN): (a) During the year 2003-04, the share of

†Original notice of the question was received in Hindi.